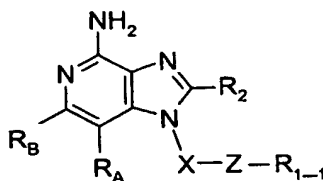


WHAT IS CLAIMED IS:

1. A compound of the Formula (I-1):



5

I-1

wherein:

X is alkylene optionally interrupted by one or more -O- groups;

10 Z is -C(O)-, -C(O)O-, or -C(-Q-R₁₋₃)₂-;

R₁₋₁ is selected from the group consisting of:

hydrogen,

alkyl,

aryl,

15 alkylene-aryl,

heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group

20 consisting of:

halogen,

cyano,

nitro,

alkoxy,

25 dialkylamino,

alkylthio,

haloalkyl,

haloalkoxy,

alkyl,

-NH-SO₂-R₁₋₄,
 -NH-C(O)-R₁₋₄,
 -NH-C(O)-NH₂,
 -NH-C(O)-NH-R₁₋₄, and
 -N₃;

5

with the proviso that if Z is -C(O)-, then R₁₋₁ may also be

-N(CH₃)(OCH₃);

with the further proviso that if Z is -C(O)O-, then R₁₋₁ is not
 hydrogen;

10

with the further proviso that if Z is -C(O)O-, then X does not
 include -O- groups;

Q is O or S;

R₁₋₃ is selected from the group consisting of:

15

alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
 alkylene-heteroaryl, and
 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

20

substituted by one or more substituents selected from the group
 consisting of:

25

halogen,
 cyano,
 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
 haloalkyl,
 haloalkoxy,
 alkyl,
 -NH-SO₂-R₁₋₄,
 -NH-C(O)-R₁₋₄,

30

-NH-C(O)-NH₂,
-NH-C(O)-NH-R₁₋₄, and
-N₃;

5 or the R₁₋₃ groups can join together to form a ring system comprising a saturated or unsaturated 5-, 6-, or 7-membered ring;

R₁₋₄ is selected from the group consisting of:

alkyl,
aryl,
alkylene-aryl,
10 heteroaryl,
alkylene-heteroaryl, and
alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
consisting of:

15 halogen,
cyano,
nitro,
alkoxy,
dialkylamino,
20 alkylthio,
haloalkyl,
haloalkoxy,
alkyl, and
-N₃; and

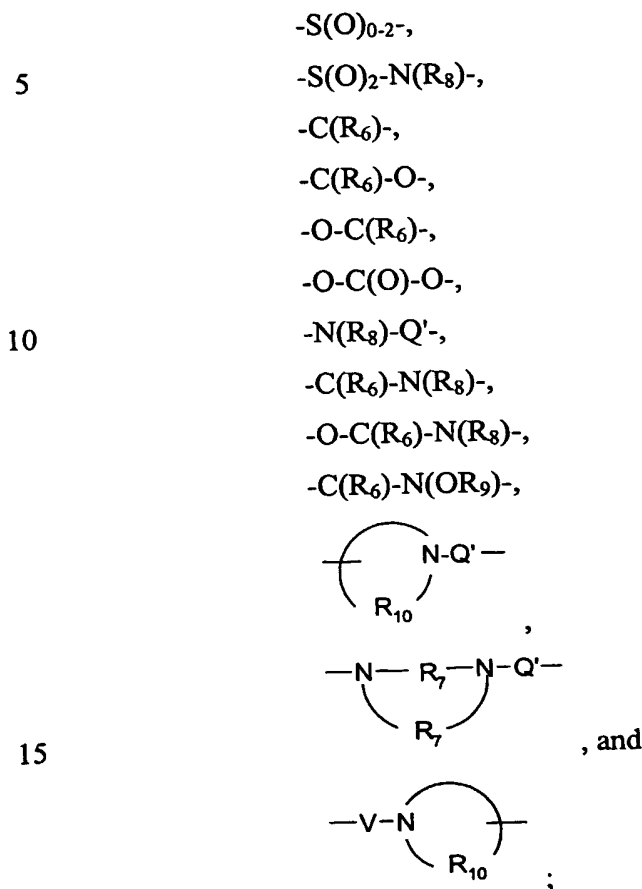
25 R₂ is selected from the group consisting of:

-R₄,
-X'-R₄,
-X'-Y'-R₄, and
-X'-R₅;

30 X' is selected from the group consisting of alkylene, alkenylene, alkynylene, arylene, and heteroarylene, wherein the alkylene, alkenylene, and

alkynylene groups can be optionally interrupted or terminated with arylene, or heteroarylene, and optionally interrupted by one or more -O- groups;

Y' is selected from the group consisting of:



R₄ is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl, wherein

20

the alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl groups can be unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, alkoxy, hydroxyalkyl, haloalkyl, haloalkoxy, halogen, nitro, hydroxy, mercapto, cyano, aryl, aryloxy,

25

arylalkyleneoxy, heteroaryl, heteroaryloxy, heteroarylalkyleneoxy, heterocyclyl, amino, alkylamino, dialkylamino, (dialkylamino)alkyleneoxy, and in the case of alkyl, alkenyl, and alkynyl, oxo;

alkyl,
haloalkyl,
alkoxy, and
-N(R₉)₂;

5 R_a is selected from the group consisting of:

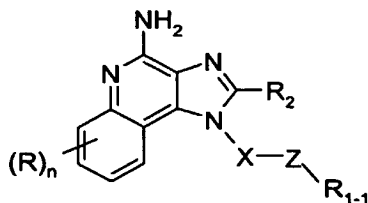
halogen,
hydroxy,
alkyl,
alkenyl,
haloalkyl,
alkoxy,
alkylthio, and
-N(R₉)₂;

10

or a pharmaceutically acceptable salt thereof.

15

2. A compound of the Formula (I-2):



I-2

20 wherein:

X is alkylene optionally interrupted by one or more -O- groups;

n is an integer from 0 to 4;

Z is -C(O)-, -C(O)O-, or -C(-Q-R₁₋₃)₂-;

R₁₋₁ is selected from the group consisting of:

25

hydrogen,
alkyl,
aryl,
alkylene-aryl,
heteroaryl,

alkylene-heteroaryl, and
 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
 substituted by one or more substituents selected from the group
 consisting of:

- 5 halogen,
 cyano,
 nitro,
 alkoxy,
 dialkylamino,
 10 alkylthio,
 haloalkyl,
 haloalkoxy,
 alkyl,
 -NH-SO₂-R₁₋₄,
 15 -NH-C(O)-R₁₋₄,
 -NH-C(O)-NH₂,
 -NH-C(O)-NH-R₁₋₄, and
 -N₃;

with the proviso that if Z is -C(O)-, then R₁₋₁ may also be
 20 -N(CH₃)(OCH₃);
 with the further proviso that if Z is -C(O)O-, then R₁₋₁ is not
 hydrogen;
 with the further proviso that if Z is -C(O)O-, then X does not
 include -O- groups;

25 Q is O or S;
 R₁₋₃ is selected from the group consisting of:

- alkyl,
 aryl,
 alkylene-aryl,
 30 heteroaryl,
 alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
consisting of:

- 5 halogen,
 cyano,
 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
10 haloalkyl,
 haloalkoxy,
 alkyl,
 -NH-SO₂-R₁₋₄,
 -NH-C(O)-R₁₋₄,
15 -NH-C(O)-NH₂,
 -NH-C(O)-NH-R₁₋₄, and
 -N₃;

or the R₁₋₃ groups can join together to form a ring system comprising a
saturated or unsaturated 5-, 6-, or 7-membered ring;

- 20 R₁₋₄ is selected from the group consisting of:

- alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
25 alkylene-heteroaryl, and
 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
consisting of:

- 30 halogen,
 cyano,
 nitro,
 alkoxy,

5 dialkylamino,
 alkylthio,
 haloalkyl,
 haloalkoxy,
 alkyl, and
 -N₃; and

R is selected from the group consisting of:

10 fluoro,
 alkyl,
 haloalkyl,
 alkoxy, and
 -N(R₉)₂;

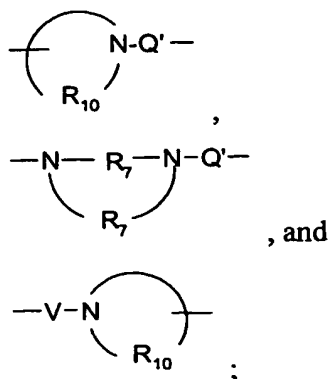
R₂ is selected from the group consisting of:

15 -R₄,
 -X'-R₄,
 -X'-Y'-R₄, and
 -X'-R₅;

20 X' is selected from the group consisting of alkylene, alkenylene,
 alkynylene, arylene, and heteroarylene, wherein the alkylene, alkenylene, and
 alkynylene groups can be optionally interrupted or terminated with arylene or
 heteroarylene, and optionally interrupted by one or more -O- groups;

Y' is selected from the group consisting of:

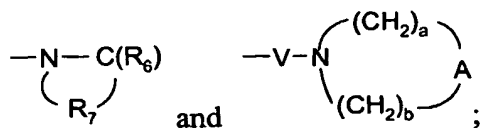
25 -S(O)₀₋₂-,
 -S(O)₂-N(R₈)-,
 -C(R₆)-,
 -C(R₆)-O-,
 -O-C(R₆)-,
 -O-C(O)-O-,
 -N(R₈)-Q'-,
30 -C(R₆)-N(R₈)-,
 -O-C(R₆)-N(R₈)-,
 -C(R₆)-N(OR₉)-,



5 R_4 is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl, wherein the alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl groups can be unsubstituted or substituted by one or more substituents

10 independently selected from the group consisting of alkyl, alkoxy, hydroxyalkyl, haloalkyl, haloalkoxy, halogen, nitro, hydroxy, mercapto, cyano, aryl, aryloxy, arylalkyleneoxy, heteroaryl, heteroaryloxy, heteroarylalkyleneoxy, heterocyclyl, amino, alkylamino, dialkylamino, (dialkylamino)alkyleneoxy, and in the case of alkyl, alkenyl, and alkynyl, oxo;

15 R_5 is selected from the group consisting of:



R_6 is selected from the group consisting of =O and =S;

R_7 is a C_{2-7} alkylene;

20 R_8 is selected from the group consisting of hydrogen, alkyl, alkoxyalkylenyl, and arylalkylenyl;

R_9 is selected from the group consisting of hydrogen and alkyl;

R_{10} is C_{3-8} alkylene;

A is selected from the group consisting of -O-, -C(O)-, -S(O)₀₋₂-, -CH₂-, and -N(R_4)-;

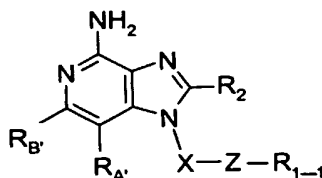
25 Q' is selected from the group consisting of a bond, -C(R_6)-, -C(R_6)-C(R_6)-, -S(O)₂-, and -S(O)₂-N(R_8)-;

V is selected from the group consisting of $-C(R_6)-$, $-O-C(R_6)-$, and $-S(O)_2-$; and

a and b are independently integers from 1 to 6 with the proviso that $a + b$ is ≤ 7 ;

5 or a pharmaceutically acceptable salt thereof.

3. A compound of the Formula (I-3):



10

I-3

wherein:

X is alkylene optionally interrupted by one or more $-O-$ groups;

Z is $-C(O)-$, $-C(O)O-$, or $-C(-Q-R_{1-3})_2-$;

15 R_{1-1} is selected from the group consisting of:

hydrogen,

alkyl,

aryl,

alkylene-aryl,

20

heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group consisting of:

25

halogen,

cyano,

nitro,

alkoxy,

dialkylamino,

- alkylthio,
haloalkyl,
haloalkoxy,
alkyl,
5 -NH-SO₂-R₁₋₄,
-NH-C(O)-R₁₋₄,
-NH-C(O)-NH₂,
-NH-C(O)-NH-R₁₋₄, and
-N₃;
- 10 with the proviso that if Z is -C(O)-, then R₁₋₁ may also be
-N(CH₃)(OCH₃);
with the further proviso that if Z is -C(O)O-, then R₁₋₁ is not
hydrogen;
with the further proviso that if Z is -C(O)O-, then X does not
15 include -O- groups;
Q is O or S;
R₁₋₃ is selected from the group consisting of:
alkyl,
aryl,
20 alkylene-aryl,
heteroaryl,
alkylene-heteroaryl, and
alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
25 consisting of:
halogen,
cyano,
nitro,
alkoxy,
30 dialkylamino,
alkylthio,
haloalkyl,

haloalkoxy,
alkyl,
-NH-SO₂-R₁₋₄,
-NH-C(O)-R₁₋₄,
5 -NH-C(O)-NH₂,
-NH-C(O)-NH-R₁₋₄, and
-N₃;

or the R₁₋₃ groups can join together to form a ring system comprising a
saturated or unsaturated 5-, 6-, or 7-membered ring;

10 R₁₋₄ is selected from the group consisting of:

alkyl,
aryl,
alkylene-aryl,
heteroaryl,
15 alkylene-heteroaryl, and
alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
consisting of:

halogen,
20 cyano,
nitro,
alkoxy,
dialkylamino,
alkylthio,
25 haloalkyl,
haloalkoxy,
alkyl, and
-N₃; and

R₂ is selected from the group consisting of:

30 -R₄,
-X'-R₄,
-X'-Y'-R₄, and

-X'-R₅;

X' is selected from the group consisting of alkylene, alkenylene, alkynylene, arylene, and heteroarylene, wherein the alkylene, alkenylene, and alkynylene groups can be optionally interrupted or terminated with arylene or heteroarylene, and optionally interrupted by one or more -O- groups;

Y' is selected from the group consisting of:

-S(O)₀₋₂-,

-S(O)₂-N(R₈)-,

-C(R₆)-,

-C(R₆)-O-,

-O-C(R₆)-,

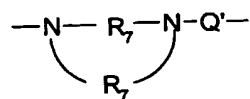
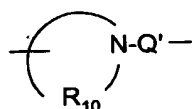
-O-C(O)-O-,

-N(R₈)-Q'-,

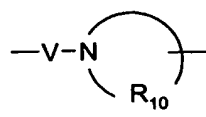
-C(R₆)-N(R₈)-,

-O-C(R₆)-N(R₈)-,

-C(R₆)-N(OR₉)-,



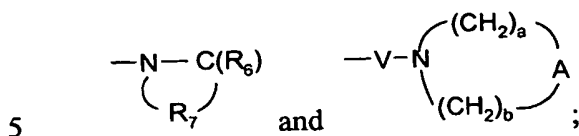
, and



R₄ is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl, wherein the alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl groups can be unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, alkoxy, hydroxyalkyl, haloalkyl, haloalkoxy, halogen, nitro, hydroxy, mercapto, cyano, aryl, aryloxy,

arylalkyleneoxy, heteroaryl, heteroaryloxy, heteroarylalkyleneoxy, heterocyclyl, amino, alkylamino, dialkylamino, (dialkylamino)alkyleneoxy, and in the case of alkyl, alkenyl, and alkynyl, oxo;

R₅ is selected from the group consisting of:



R₆ is selected from the group consisting of =O and =S;

R₇ is a C₂₋₇ alkylene;

R₈ is selected from the group consisting of hydrogen, alkyl, alkoxyalkylenyl, and arylalkylenyl;

10 R₉ is selected from the group consisting of hydrogen and alkyl;

R₁₀ is C₃₋₈ alkylene;

A is selected from the group consisting of -O-, -C(O)-, -S(O)₀₋₂-, -CH₂-, and -N(R₄)-;

Q' is selected from the group consisting of a bond, -C(R₆)-,
 15 -C(R₆)-C(R₆)-, -S(O)₂-, and -S(O)₂-N(R₈)-;

V is selected from the group consisting of -C(R₆)-, -O-C(R₆)-, and -S(O)₂-;

a and b are independently integers from 1 to 6 with the proviso that $a + b$ is ≤ 7 ;

20 $R_{A'}$ and $R_{B'}$ are each independently selected from the group consisting of:

hydrogen,

halogen,

alkyl,

alkenyl,

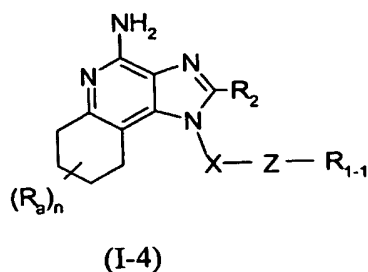
25 alkoxy,

alkylthio, and

$$-\text{N}(\text{R}_9)_2;$$

or a pharmaceutically acceptable salt thereof.

4. A compound of the formula (I-4):



- 5 wherein:

X is alkylene optionally interrupted by one or more -O- groups;

n is an integer from 0 to 4;

Z is -C(O)-, -C(O)O-, or -C(-Q-R₁₋₃)₂-;

R₁₋₁ is selected from the group consisting of:

- 10 hydrogen,
 alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
 15 alkylene-heteroaryl, and
 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group
 consisting of:

- halogen,
 20 cyano,
 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
 25 haloalkyl,
 haloalkoxy,
 alkyl,
 -NH-SO₂-R₁₋₄,
 -NH-C(O)-R₁₋₄,

-NH-C(O)-NH₂,
-NH-C(O)-NH-R₁₋₄, and
-N₃;

with the proviso that if Z is -C(O)-, then R₁₋₁ may also be

5 -N(CH₃)(OCH₃);

with the further proviso that if Z is -C(O)O-, then R₁₋₁ is not
hydrogen;

with the further proviso that if Z is -C(O)O-, then X does not
include -O- groups;

10 Q is O or S;

R₁₋₃ is selected from the group consisting of:

alkyl,

aryl,

alkylene-aryl,

15 heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group
consisting of:

20 halogen,

cyano,

nitro,

alkoxy,

dialkylamino,

25 alkylthio,

haloalkyl,

haloalkoxy,

alkyl,

-NH-SO₂-R₁₋₄,

30 -NH-C(O)-R₁₋₄,

-NH-C(O)-NH₂,

-NH-C(O)-NH-R₁₋₄, and

-N₃;

or the R₁₋₃ groups can join together to form a ring system comprising a saturated or unsaturated 5-, 6-, or 7-membered ring;

R₁₋₄ is selected from the group consisting of:

5

alkyl,

aryl,

alkylene-aryl,

heteroaryl,

alkylene-heteroaryl, and

10

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group consisting of:

halogen,

cyano,

15

nitro,

alkoxy,

dialkylamino,

alkylthio,

haloalkyl,

20

haloalkoxy,

alkyl, and

-N₃; and

R_a is selected from the group consisting of:

halogen,

25

hydroxy,

alkyl,

alkenyl,

haloalkyl,

alkoxy,

30

alkylthio, and

-N(R₉)₂;

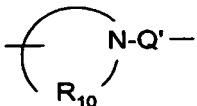
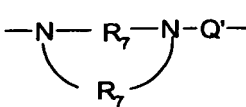
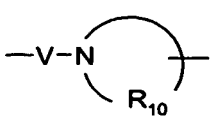
R₂ is selected from the group consisting of:

-R₄,
 -X'-R₄,
 -X'-Y'-R₄, and
 -X'-R₅;

5 X' is selected from the group consisting of alkylene, alkenylene, alkynylene, arylene, and heteroarylene, wherein the alkylene, alkenylene, and alkynylene groups can be optionally interrupted or terminated with arylene or heteroarylene, and optionally interrupted by one or more -O- groups;

Y' is selected from the group consisting of:

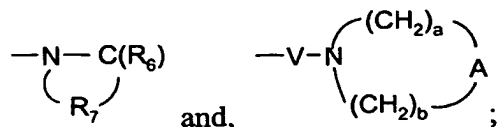
10 -S(O)₀₋₂-,
 -S(O)₂-N(R₈)-,
 -C(R₆)-,
 -C(R₆)-O-,
 -O-C(R₆)-,
 15 -O-C(O)-O-,
 -N(R₈)-Q'-,
 -C(R₆)-N(R₈)-,
 -O-C(R₆)-N(R₈)-,
 -C(R₆)-N(OR₉)-,

20 ,
, and
;

R₄ is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl, wherein
 25 the alkyl, alkenyl, alkynyl, aryl, arylalkylenyl, aryloxyalkylenyl, alkylarylenyl, heteroaryl, heteroarylalkylenyl, heteroaryloxyalkylenyl, and alkylheteroarylenyl

groups can be unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, alkoxy, hydroxyalkyl, haloalkyl, haloalkoxy, halogen, nitro, hydroxy, mercapto, cyano, aryl, aryloxy, arylalkyleneoxy, heteroaryl, heteroaryloxy, heteroarylalkyleneoxy, heterocyclyl, amino, alkylamino, dialkylamino, (dialkylamino)alkyleneoxy, and in the case of alkyl, alkenyl, and alkynyl, oxo;

R_s is selected from the group consisting of:



R₆ is selected from the group consisting of =O and =S;

R₇ is a C₂₋₇ alkylene;

R₈ is selected from the group consisting of hydrogen, alkyl, alkoxyalkylenyl, and arylalkylenyl;

R₉ is selected from the group consisting of hydrogen and alkyl;

R₁₀ is C₃₋₈ alkylene;

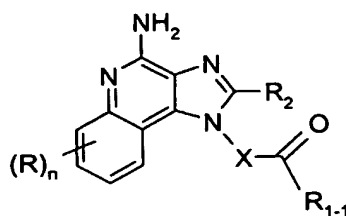
A is selected from the group consisting of -O-, -C(O)-, -S(O)₀₋₂-, -CH₂-, and -N(R₄)-;

Q' is selected from the group consisting of a bond, -C(R₆)-, -C(R₆)-C(R₆)-, -S(O)₂-, and -S(O)₂-N(R₈)-;

V is selected from the group consisting of -C(R₆)-, -O-C(R₆)-, and -S(O)₂-; and

a and b are independently integers from 1 to 6 with the proviso that a + b is ≤ 7 ;
or a pharmaceutically acceptable salt thereof.

5. A compound of the Formula (Ia):



Ia

5 wherein:

X is alkylene optionally interrupted by one or more -O- groups;

n is an integer from 0 to 4;

R₁₋₁ is selected from the group consisting of:

hydrogen,

10 alkyl,

aryl,

alkylene-aryl,

heteroaryl,

alkylene-heteroaryl,

15 -N(CH₃)(OCH₃), and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group consisting of:

halogen,

20 cyano,

nitro,

alkoxy,

dialkylamino,

alkylthio,

25 haloalkyl,

haloalkoxy,

alkyl,

-NH-SO₂-R₁₋₄,

-NH-C(O)-R₁₋₄,

-NH-C(O)-NH₂,
-NH-C(O)-NH-R₁₋₄, and
-N₃;

R₁₋₄ is selected from the group consisting of:

5 alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
 alkylene-heteroaryl, and
10 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
consisting of:

 halogen,
 cyano,
15 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
 haloalkyl,
20 haloalkoxy,
 alkyl, and
 -N₃;

R is selected from the group consisting of:

 fluoro,
25 alkyl,
 haloalkyl,
 alkoxy, and
 -N(R₉)₂;

R₂ is selected from the group consisting of:

30 hydrogen,
 alkyl,
 alkenyl,

aryl,
heteroaryl,
heterocyclyl,
alkylene-Y-alkyl,
5 alkylene-Y-alkenyl,
alkylene-Y-aryl, and
alkyl or alkenyl substituted by one or more substituents selected

from the group consisting of:

hydroxy,
10 halogen,
-N(R₃)₂,
-C(O)-C₁₋₁₀alkyl,
-C(O)-O-C₁₋₁₀alkyl,
-N(R₃)-C(O)-C₁₋₁₀alkyl,
15 -N₃,
aryl,
heteroaryl,
heterocyclyl,
-C(O)-aryl, and
20 -C(O)-heteroaryl;

wherein:

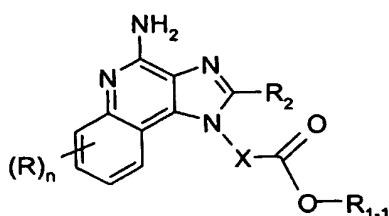
Y is -O- or -S(O)₀₋₂;

R₃ is selected from the group consisting of:

hydrogen,
25 C₁₋₁₀alkyl, and
C₂₋₁₀alkenyl; and

R₉ is selected from the group consisting of hydrogen and alkyl;
or a pharmaceutically acceptable salt thereof.

6. A compound of the Formula (Ib):



Ib

5 wherein:

X is alkylene;

n is an integer from 0 to 4;

R_{1,1} is selected from the group consisting of:

alkyl,

10

aryl,

alkylene-aryl,

heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

15

substituted by one or more substituents selected from the group consisting of:

halogen,

cyano,

nitro,

20

alkoxy,

dialkylamino,

alkylthio,

haloalkyl,

haloalkoxy,

25

alkyl,

-NH-SO₂-R_{1,4},

-NH-C(O)-R_{1,4},

-NH-C(O)-NH₂,

-NH-C(O)-NH-R₁₋₄, and

-N₃;

R₁₋₄ is selected from the group consisting of:

alkyl,

5 aryl,

alkylene-aryl,

heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

10 substituted by one or more substituents selected from the group
consisting of:

halogen,

cyano,

nitro,

15 alkoxy,

dialkylamino,

alkylthio,

haloalkyl,

haloalkoxy,

20 alkyl, and

-N₃;

R is selected from the group consisting of:

fluoro,

alkyl,

25 alkoxy,

haloalkyl, and

-N(R₉)₂;

R₂ is selected from the group consisting of:

hydrogen,

30 alkyl,

alkenyl,

aryl,

heteroaryl,
heterocyclyl,
alkylene-Y-alkyl,
alkylene-Y-alkenyl,
5 alkylene-Y-aryl, and
alkyl or alkenyl substituted by one or more substituents selected
from the group consisting of:

hydroxy,
halogen,
10 -N(R₃)₂,
-C(O)-C₁₋₁₀alkyl,
-C(O)-O-C₁₋₁₀alkyl,
-N(R₃)-C(O)-C₁₋₁₀alkyl,
-N₃,
15 aryl,
heteroaryl,
heterocyclyl,
-C(O)-aryl, and
-C(O)-heteroaryl;

20 wherein:

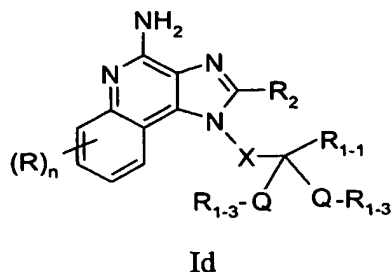
Y is -O- or -S(O)₀₋₂;

R₃ is selected from the group consisting of:

hydrogen,
C₁₋₁₀alkyl, and
25 C₂₋₁₀alkenyl; and

R₉ is selected from the group consisting of hydrogen and alkyl;
or a pharmaceutically acceptable salt thereof.

7. A compound of the Formula (Id):



5 wherein:

X is alkylene optionally interrupted by one or more -O- groups;

n is an integer from 0 to 4;

R₁₋₁ is selected from the group consisting of:

hydrogen,

10 alkyl,

aryl,

alkylene-aryl,

heteroaryl,

alkylene-heteroaryl, and

15 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group consisting of:

halogen,

cyano,

20 nitro,

alkoxy,

dialkylamino,

alkylthio,

haloalkyl,

25 haloalkoxy,

alkyl,

-NH-SO₂-R₁₋₄,

-NH-C(O)-R₁₋₄,

-NH-C(O)-NH₂,

-NH-C(O)-NH-R₁₋₄, and

-N₃;

Q is O or S;

R₁₋₃ is selected from the group consisting of:

5 alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
 alkylene-heteroaryl, and
10 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
consisting of:

 halogen,
 cyano,
15 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
 haloalkyl,
20 haloalkoxy,
 alkyl,
 -NH-SO₂-R₁₋₄,
 -NH-C(O)-R₁₋₄,
 -NH-C(O)-NH₂,
25 -NH-C(O)-NH-R₁₋₄, and
 -N₃;

or the R₁₋₃ groups can join together to form a ring system comprising a
saturated or unsaturated 5-, 6-, or 7-membered ring;

R₁₋₄ is selected from the group consisting of:

30 alkyl,
 aryl,
 alkylene-aryl,

heteroaryl,
alkylene-heteroaryl, and
alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
5 consisting of:

halogen,
cyano,
nitro,
alkoxy,
10 dialkylamino,
alkylthio,
haloalkyl,
haloalkoxy,
alkyl, and
15 -N₃;

R is selected from the group consisting of:

fluoro,
alkyl,
alkoxy,
20 haloalkyl, and
-N(R₉)₂;

R₂ is selected from the group consisting of:

hydrogen,
alkyl,
25 alkenyl,
aryl,
heteroaryl,
heterocyclyl,
alkylene-Y-alkyl,
30 alkylene-Y-alkenyl,
alkylene-Y-aryl, and

alkyl or alkenyl substituted by one or more substituents selected
from the group consisting of:

- hydroxy,
- halogen,
- 5 -N(R₃)₂,
- C(O)-C₁₋₁₀alkyl,
- C(O)-O-C₁₋₁₀alkyl,
- N(R₃)-C(O)-C₁₋₁₀alkyl,
- N₃,
- 10 aryl,
- heteroaryl,
- heterocyclyl,
- C(O)-aryl, and
- C(O)-heteroaryl;

15 wherein:

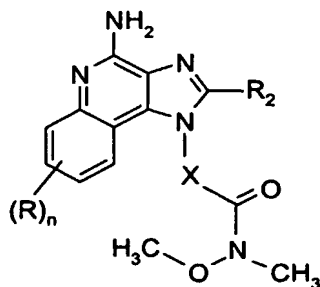
Y is -O- or -S(O)₀₋₂-; and

R₃ is selected from the group consisting of:

- hydrogen,
- C₁₋₁₀alkyl, and
- 20 C₂₋₁₀alkenyl; and

R₉ is selected from the group consisting of hydrogen and alkyl;
or a pharmaceutically acceptable salt thereof.

8. A compound of the Formula (Ie):



25

Ie

wherein:

X is alkylene optionally interrupted by one or more -O- groups;

n is an integer from 0 to 4;

R is selected from the group consisting of:

fluoro,

5

alkyl,

alkoxy,

haloalkyl, and

-N(R₉)₂;

R₂ is selected from the group consisting of:

10

hydrogen,

alkyl,

alkenyl,

aryl,

heteroaryl,

15

heterocyclyl,

alkylene-Y-alkyl,

alkylene-Y-alkenyl,

alkylene-Y-aryl, and

alkyl or alkenyl substituted by one or more substituents selected

20

from the group consisting of:

hydroxy,

halogen,

-N(R₃)₂,

-C(O)-C₁₋₁₀alkyl,

25

-C(O)-O-C₁₋₁₀alkyl,

-N(R₃)-C(O)-C₁₋₁₀alkyl,

-N₃,

aryl,

heteroaryl,

30

heterocyclyl,

-C(O)-aryl, and

-C(O)-heteroaryl;

wherein:

Y is $-O-$ or $-S(O)_{0-2}-$; and

R₃ is selected from the group consisting of:

hydrogen,

5 C₁₋₁₀alkyl, and

C₂₋₁₀alkenyl; and

R₉ is selected from the group consisting of hydrogen and alkyl;
or a pharmaceutically acceptable salt thereof.

- 10 9. The compound or salt of claim 3 wherein R_A and R_B are independently selected from the group consisting of hydrogen and alkyl.
10. The compound or salt of claim 9 wherein R_A and R_B are both methyl.
- 15 11. The compound or salt of any one of claims 2 or 4 through 8 wherein n is 0.
12. The compound or salt of any one of claims 1 through 4, 9, or 10, or claim 11 as dependent on either of claims 2 or 4, wherein Z is $-C(O)-$.
- 20 13. The compound or salt of any one of claims 1 through 4, 9, or 10, or claim 11 as dependent on either of claims 2 or 4, wherein Z is $-C(O)O-$.
14. The compound or salt of any one of claims 1 through 4, 9, or 10, or claim 25 11 as dependent on either of claims 2 or 4, wherein Z is $-C(-Q-R_{1-3})_2-$.
15. The compound or salt of claim 14 wherein R₁₋₃ is alkyl, or the R₁₋₃ groups join to form a 5-membered ring.
- 30 16. The compound or salt of claim 14 wherein the 5-, 6-, or 7-membered ring of R₁₋₃ is optionally fused to one or two saturated or unsaturated 5-, 6-, or 7-membered rings or is substituted by one or more substituents selected from the

group consisting of aryl, heteroaryl, halogen, haloalkyl, alkylene-O-alkyl, and substituted aryl.

17. The compound or salt of any one of claims 1 through 4, 7, 9, or 10, or
5 claim 11 as dependent on any one of claims 2, 4, or 7, or claims 14 through 16,
wherein each Q is -O-.
18. The compound or salt of any one of claims 1 through 5, 9, or 10, or claim
11 as dependent on anyone of claims 2, 4, or 5, or claim 12, wherein R_{1-1} is
10 selected from the group consisting of aryl, alkyl, and $-N(CH_3)OCH_3$.
19. The compound or salt of any one of claims 1 through 5, 7, 9, 10, or claim
11 as dependent on any one of claims 2, 4, 5, or 7, or claim 12, or claims 14
15 through 17, wherein R_{1-1} is selected from the group consisting of alkyl, aryl, and
hydrogen.
20. The compound or salt of any one of claims 1 through 5, 7 through 10, or
claim 11 as dependent on anyone of claims 2, 4, 5, 7, or 8, or claim 12, or claims
14 through 19, wherein X is a C_{1-6} alkylene or $-(CH_2)_{2-4}-O-(CH_2)_{1-3}-$.
20
21. The compound or salt of claim 20 wherein X is selected from the group
consisting of $-(CH_2)_{1-6}-$, $-CH_2-C(CH_3)_2-$, $-(CH_2)_2-O-CH_2-$, $-(CH_2)_3-O-CH_2-$, and
 $-CH_2-C(CH_3)_2-CH_2-$.
22. The compound or salt of any one of claims 1 through 7, 9, or 10; or claim
25 11 as dependent on any one of claims 2, or 4 through 7; or claims 12 through 19;
or claim 20 as dependent on any one of claims 1 through 5, 7, 9, 10, or claim 11
as dependent on any one of claims 2, 4, 5, or 7, or claims 14 through 19; or claim
21 as dependent on any one of claims 1 through 5, 7, 9, 10, or claim 11 as
30 dependent on any one of claims 2, 4, 5, or 7, or claims 14 through 19, wherein
 R_{1-1} is selected from the group consisting of alkyl and aryl.

23. The compound or salt of claim 22 wherein R_{1-1} is selected from the group consisting of methyl, ethyl, *n*-propyl, isopropyl, cyclopropyl, *n*-butyl, *sec*-butyl, isobutyl, *tert*-butyl, *n*-pentyl, cyclopentyl, *n*-hexyl, cyclohexyl, phenyl, 4-chlorophenyl and 2,4-dichlorophenyl.

5

24. The compound or salt of any one of claims 1 through 23 wherein R_2 is selected from the group consisting of:

hydrogen,
alkyl,
10 alkenyl,
aryl,
heteroaryl,
heterocyclyl,
alkylene-Y-alkyl,
15 alkylene-Y- alkenyl,
alkylene-Y-aryl, and
alkyl or alkenyl substituted by one or more substituents selected
from the group consisting of:
hydroxy,
20 halogen,
-N(R₃)₂,
-C(O)-C₁₋₁₀alkyl,
-C(O)-O-C₁₋₁₀alkyl,
-N(R₃)-C(O)-C₁₋₁₀alkyl,
25 -N₃,
aryl,
heteroaryl,
heterocyclyl,
-C(O)-aryl, and
30 -C(O)-heteroaryl;

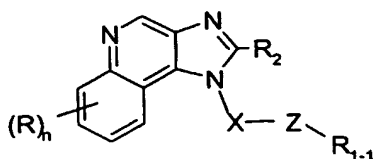
wherein:

Y is -O- or -S(O)₀₋₂-; and

R₃ is selected from the group consisting of hydrogen, C₁₋₁₀alkyl, and C₂₋₁₀alkenyl.

25. The compound or salt of any one of claims 1 through 24 wherein R₂ is selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, and alkoxyalkyl.
26. The compound or salt of claim 25 wherein R₂ is selected from the group consisting of hydrogen, hydroxymethyl, methyl, ethyl, *n*-propyl, *n*-butyl, ethoxymethyl, and 2-methoxyethyl.
27. The compound or salt of any one of claims 1 through 26 wherein X is C₁₋₆ alkylene.
28. The compound or salt of claim 27 wherein X is selected from the group consisting of -(CH₂)₁₋₆-, -CH₂-C(CH₃)₂-, and -CH₂-C(CH₃)₂-CH₂-.
29. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt of any one of claims 1 through 28 in combination with a pharmaceutically acceptable carrier.
30. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a compound or salt of any one of claims 1 through 28 to the animal.
31. A method of treating a viral disease in an animal in need thereof comprising administering a therapeutically effective amount of a compound or salt of any one of claims 1 through 28 to the animal.
32. A method of treating a neoplastic disease in an animal in need thereof comprising administering a therapeutically effective amount of a compound or salt of any one of claims 1 through 28 to the animal.

33. A compound of the Formula (II):



II

5

wherein:

X is alkylene optionally interrupted by one or more -O- groups;

n is an integer from 0 to 4;

Z is -C(O)-, -C(O)O-, or -C(-Q-R₁₋₃)₂-;

10 R₁₋₁ is selected from the group consisting of:

hydrogen,

alkyl,

aryl,

alkylene-aryl,

15

heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group
consisting of:

20

halogen,

cyano,

nitro,

alkoxy,

dialkylamino,

25

alkylthio,

haloalkyl,

haloalkoxy,

alkyl,

-NH-SO₂-R₁₋₄,

30

-NH-C(O)-R₁₋₄,

-NH-C(O)-NH₂,
-NH-C(O)-NH-R₁₋₄, and
-N₃;

with the proviso that if Z is -C(O)-, then R₁₋₁ may also be

5 -N(CH₃)(OCH₃);

with the further proviso that if Z is -C(O)O-, then R₁₋₁ is not
hydrogen;

with the further proviso that if Z is -C(O)O-, then X does not
include -O- groups;

10 Q is O or S;

R₁₋₃ is selected from the group consisting of:

alkyl,

aryl,

alkylene-aryl,

15 heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group
consisting of:

20 halogen,

cyano,

nitro,

alkoxy,

dialkylamino,

25 alkylthio,

haloalkyl,

haloalkoxy,

alkyl,

-NH-SO₂-R₁₋₄,

30 -NH-C(O)-R₁₋₄,

-NH-C(O)-NH₂,

-NH-C(O)-NH-R₁₋₄, and

-N₃;

or the R₁₋₃ groups can join together to form a ring system comprising a saturated or unsaturated 5-, 6-, or 7-membered ring;

R₁₋₄ is selected from the group consisting of:

- 5 alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
 alkylene-heteroaryl, and
10 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
 substituted by one or more substituents selected from the group
 consisting of:
 halogen,
 cyano,
15 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
 haloalkyl,
20 haloalkoxy,
 alkyl, and
 -N₃;

R is selected from the group consisting of:

- fluoro,
25 alkyl,
 alkoxy,
 haloalkyl, and
 -N(R₉)₂;

R₂ is selected from the group consisting of:

- 30 hydrogen,
 alkyl,
 alkenyl,

5 aryl,
 heteroaryl,
 heterocyclyl,
 alkylene-Y-alkyl,
 alkylene-Y-alkenyl,
 alkylene-Y-aryl, and
 alkyl or alkenyl substituted by one or more substituents selected
from the group consisting of:
10 hydroxy,
 halogen,
 -N(R₃)₂,
 -C(O)-C₁₋₁₀alkyl,
 -C(O)-O-C₁₋₁₀alkyl,
 -N(R₃)-C(O)-C₁₋₁₀alkyl,
15 -N₃,
 aryl,
 heteroaryl,
 heterocyclyl,
 -C(O)-aryl, and
20 -C(O)-heteroaryl;

wherein:

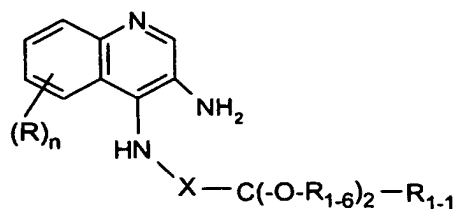
Y is -O- or -S(O)₀₋₂-; and

R₃ is selected from the group consisting of:

25 hydrogen,
 C₁₋₁₀alkyl, and
 C₂₋₁₀alkenyl, and

R₉ is selected from the group consisting of hydrogen and alkyl;
or a pharmaceutically acceptable salt thereof.

34. A compound of the Formula (III):



III

wherein:

- 5 X is alkylene optionally interrupted by one or more -O- groups;
 n is an integer from 0 to 4;
 R₁₋₁ is selected from the group consisting of:
- hydrogen,
 - alkyl,
 - 10 aryl,
 - alkylene-aryl,
 - heteroaryl,
 - alkylene-heteroaryl, and
 - alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
- 15 substituted by one or more substituents selected from the group consisting of:
- halogen,
 - cyano,
 - nitro,
 - 20 alkoxy,
 - dialkylamino,
 - alkylthio,
 - haloalkyl,
 - haloalkoxy,
 - 25 alkyl,
 - NH-SO₂-R₁₋₄,
 - NH-C(O)-R₁₋₄,
 - NH-C(O)-NH₂,
 - NH-C(O)-NH-R₁₋₄, and

-N₃;

R₁₋₆ is alkyl or the R₁₋₆ groups can join together to form a ring system comprising a saturated 5- or 6-membered ring;

R₁₋₄ is selected from the group consisting of:

5 alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
 alkylene-heteroaryl, and
10 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
substituted by one or more substituents selected from the group
consisting of:

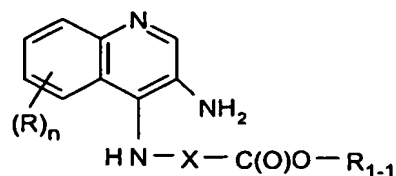
 halogen,
 cyano,
15 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
 haloalkyl,
20 haloalkoxy,
 alkyl, and
 -N₃;

R is selected from the group consisting of:

 fluoro,
25 alkyl,
 alkoxy,
 haloalkyl, and
 -N(R₉)₂; and

 R₉ is selected from the group consisting of hydrogen and alkyl;
30 or a pharmaceutically acceptable salt thereof.

35. A compound of the Formula (IV):



IV

wherein:

- 5 X is alkylene;
 n is an integer from 0 to 4;
 R₁₋₁ is selected from the group consisting of:
- 10 alkyl,
 aryl,
 alkylene-aryl,
 heteroaryl,
 alkylene-heteroaryl, and
 alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl
 substituted by one or more substituents selected from the group
- 15 consisting of:
- halogen,
 cyano,
 nitro,
 alkoxy,
 dialkylamino,
 alkylthio,
 haloalkyl,
 haloalkoxy,
 alkyl,
- 20 -NH-SO₂-R₁₋₄,
 -NH-C(O)-R₁₋₄,
 -NH-C(O)-NH₂,
 -NH-C(O)-NH-R₁₋₄, and
 -N₃;
- 25

R₁₋₄ is selected from the group consisting of:

alkyl,

aryl,

alkylene-aryl,

5

heteroaryl,

alkylene-heteroaryl, and

alkyl, aryl, alkylene-aryl, heteroaryl, or alkylene-heteroaryl

substituted by one or more substituents selected from the group
consisting of:

10

halogen,

cyano,

nitro,

alkoxy,

dialkylamino,

15

alkylthio,

haloalkyl,

haloalkoxy,

alkyl, and

-N₃;

20

R is selected from the group consisting of:

fluoro,

alkyl,

alkoxy,

haloalkyl, and

25

-N(R₉)₂; and

R₉ is selected from the group consisting of hydrogen and alkyl;
or a pharmaceutically acceptable salt thereof.